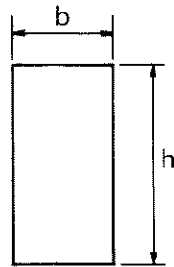


RECTANGULAR BEAMS

TYPE "B" LOAD TABLE

Normal Weight Concrete



Section Properties							
Designation	b (in.)	h (in.)	A (in. ²)	I (in. ⁴)	y _b (in.)	Z (in. ³)	wt (plf)
12RB16	12	16	192	4096	8.00	512	200
12RB20	12	20	240	8000	10.00	800	250
12RB24	12	24	288	13,824	12.00	1152	300
12RB28	12	28	336	21,952	14.00	1568	350
12RB32	12	32	384	32,768	16.00	2048	400
12RB36	12	36	432	46,656	18.00	2592	450
16RB24	16	24	384	18,432	12.00	1536	400
16RB28	16	28	448	29,269	14.00	2091	467
16RB32	16	32	512	43,691	16.00	2731	533
16RB36	16	36	576	62,208	18.00	3456	600
16RB40	16	40	640	85,333	20.00	4267	667

Key

- 1098 – Safe superimposed load, plf
- 0.43 – Anticipated initial camber, in.
- 0.47 – Deflection due to superimposed load shown, in.

Table of Safe Superimposed Loads, Cambers and Deflections

Designation	No. Strand	e	Span, ft.																				
			16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50			
12RB16	8	2.50	2721	2108	1669	1345	1098																
			0.24	0.29	0.34	0.39	0.43																
			0.23	0.28	0.34	0.40	0.47																
12RB20	8	4.00	4367	3407	2721	2213	1826	1526	1287	1094													
			0.21	0.25	0.30	0.35	0.39	0.43	0.47	0.50													
			0.19	0.23	0.29	0.34	0.40	0.46	0.52	0.58													
12RB24	8	7.63	7262	5675	4539	3700	3061	2564	2169	1851	1590												
			0.12	0.14	0.17	0.21	0.24	0.27	0.31	0.34	0.37												
			0.22	0.27	0.33	0.39	0.46	0.53	0.61	0.68	0.76												
12RB28	10	8.00			6229	5087	4219	3543	3006	2574	2220	1926	1680										
					0.15	0.17	0.20	0.23	0.26	0.29	0.32	0.35	0.38										
					0.28	0.34	0.40	0.46	0.53	0.60	0.67	0.74	0.81										
12RB32	12	8.45				6685	5553	4672	3974	3410	2949	2566	2246	1975	1743	1544							
						0.15	0.17	0.20	0.23	0.25	0.28	0.31	0.33	0.35	0.38	0.40							
						0.30	0.35	0.41	0.47	0.53	0.59	0.66	0.72	0.79	0.85	0.92							
12RB36	12	11.44					7110	5992	5104	4388	3802	3317	2910	2566	2272	2019	1799	1608					
							0.17	0.19	0.22	0.25	0.28	0.30	0.33	0.36	0.38	0.41	0.43	0.45					
							0.32	0.37	0.42	0.48	0.54	0.60	0.66	0.72	0.78	0.84	0.91	0.97					
16RB24	12	6.34		7539	6030	4914	4066	3405	2881	2458	2112	1825	1585										
				0.13	0.16	0.19	0.22	0.25	0.28	0.31	0.34	0.37	0.39										
				0.27	0.33	0.39	0.46	0.53	0.60	0.68	0.75	0.83	0.91										
16RB28	14	7.40				6768	5613	4713	4000	3424	2953	2563	2235	1958	1722	1518							
						0.17	0.19	0.22	0.25	0.28	0.31	0.34	0.36	0.38	0.40	0.42							
						0.34	0.40	0.46	0.53	0.59	0.66	0.73	0.80	0.88	0.94	1.01							
16RB32	16	8.45					7404	6230	5298	4547	3931	3422	2994	2633	2324	2058	1828	1627					
							0.17	0.20	0.23	0.25	0.28	0.31	0.33	0.35	0.38	0.40	0.41	0.43					
							0.35	0.41	0.47	0.53	0.59	0.66	0.72	0.79	0.85	0.92	0.98	1.05					
16RB36	18	9.51							6782	5830	5052	4406	3866	3408	3017	2681	2389	2135	1912	1715			
											0.20	0.23	0.25	0.28	0.30	0.33	0.35	0.37	0.39	0.41	0.42	0.43	
												0.42	0.48	0.53	0.59	0.65	0.72	0.78	0.84	0.90	0.96	1.02	1.08
16RB40	20	10.56										7270	6309	5512	4845	4280	3798	3383	3023	2709	2434	2190	

Notes: All loads shown in this sheet are governed by ultimate.
 Additional top reinforcing required.
 $f'_c = 5000$ psi $f_{pu} = 270,000$ psi